

What Is Claimed Is:

1. A window-integrated antenna in vehicles having a heating conductor field which is provided for FM and possibly TV reception, as well as for LMS reception, at least one decoupling element (6) being provided for at least the LMS reception, which has a high-frequency, but non-galvanic connection to the heating conductor field, and the decoupling element (6) being situated in the heating conductor field, in particular between two adjacent heating conductors (3).
2. The window-integrated antenna in vehicles as recited in Claim 1, wherein the decoupling element (6) is additionally provided for the FM reception and possibly for the TV reception.
3. The window-integrated antenna in vehicles as recited in Claim 2, wherein an FM/TV choke (5) is provided in the heating circuit.
4. The window-integrated antenna as recited in one of Claims 1 through 3, wherein antenna conductors (10) are situated in the heating conductor field essentially perpendicularly to the heating conductors (3), and are galvanically linked to the heating conductors (3).
5. The window-integrated antenna as recited in Claim 4, wherein the antenna conductors (10) are designed, with regard to their length and/or position, in such a way that a resonance-like behavior of the antenna occurs at the connection end (1) of the decoupling element (6) in the FM range.
6. The window-integrated antenna in vehicles as recited in one of Claims 1 through 5, wherein the decoupling element (6) is designed as a straight-line conductor, as an open conductor loop and/or a closed conductor loop.
7. The window-integrated antenna in vehicles as recited in one of Claims 1 through 6, wherein the grounding point (9) for the decoupling of the LMS or FM/TV antenna signals is located in the proximity of the connection end (1) of the decoupling element (6).
8. The window-integrated antenna in vehicles as recited in one of Claims 1 through 7, wherein at least one further FM/TV antenna signal decoupling is provided which is in

particular galvanically linked to the heating conductor field, preferably to that busbar (4) which is situated at a distance from the connection end (1) of the decoupling element (6).

9. The window-integrated antenna in vehicles as recited in one of Claims 1 through 8, wherein the distance of the decoupling element (6) or the straight-line conductor/the conductor loop to one of the heating conductors (3) is selected to be so close that a capacitive coupling with the heating conductor is ensured for FM/TV frequencies.